



1722

Patent
Docket No: 55955US002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Sarah J. Davis, et al.

Serial No.: 09/966,946

Filed: September 27, 2001

For: CERAMIC OXIDE PRE-FORMS, METAL MATRIX COMPOSITES, AND
METHODS FOR MAKING THE SAME

Group Art Unit: 1722

Examiner: Unknown

4/11/02
H/W
4/11/02

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on:

April 3, 2002
Date

Dea Orner
Signature

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, DC 20231

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, enclosed please find a completed PTO-1449 form citing references submitted for consideration during examination of the above-referenced patent application. A copy of each of the references cited therein is also enclosed.

It is believed that no fee is due; however, in the event a fee is required, please charge it to Deposit Account No. 13-3723.

It is respectfully requested that the Examiner initial and return the enclosed PTO-1449 form in order to indicate that each of the references listed thereon has been considered in connection with the present application.

Respectfully submitted,

By

Gregory D. Allen

Registration Number 35,048	Telephone Number 651-736-0641
Date April 3, 2002	

Office of Intellectual Property Counsel
3M Innovative Properties Company
P.O. Box 33427
St. Paul, Minnesota 55133-3427
Facsimile: (651) 736-3833

RECEIVED
APR 08 2002
TC 1700



INFORMATION DISCLOSURE STATEMENT		Atty. Docket No.:			Serial No.:		
		55955US002			09/966,946		
		Applicant(s): Sarah J. Davis et al.					
		Filing Date: September 27, 2001			Group: Unknown		
U.S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	SubClass	Filing Date If Appropriate
		3,795,524	3/1/1971	Sowman			
		4,047,965	9/13/1977	Kars et al.			
		4,576,836	3/18/1986	Colmet et al.			
		4,705,093	11/10/1987	Ogino			
		4,852,630	8/1/1989	Hamajima et al.			
		4,892,130	1/9/1990	Ban et al.			
		4,932,099	6/12/1990	Corwin			
		4,954,462	9/4/1990	Wood et al.			
		5,022,500	6/11/1991	Wang			
		5,036,932	8/6/1991	Schonenberger			
		5,177,039	1/5/1993	Allaire et al.			
		5,199,481	4/6/1993	Corwin et al.			
		5,223,064	6/29/1993	Gadkaree			
		5,234,045	8/10/1993	Cisko			
		5,234,080	8/10/1993	Pantale			
		5,241,737	9/7/1993	Colvin			
		5,241,738	9/7/1993	Colvin			
		5,394,930	3/7/1995	Kennerknecht			
		5,488,017	1/30/1996	Szweda et al.			
		5,589,115	12/31/1996	Sherwood			
		5,876,537	3/2/1999	Hill et al.			
		5,887,684	3/30/1999	Doll et al.			
		5,945,049	8/31/1999	Vandermeer			
		5,981,083	11/9/1999	Colvin et al.			
		6,245,425	6/12/2001	McCullough et al.			
		6,329,056	12/11/2001	Deve et al/			
		6,344,270	2/5/2002	McCullough et al.			
EXAMINER				Date Considered			
<small>*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>							



RECEIVED
APR 09 2002
TC 1700

Page 3 of 3

MB No. 0651-0011

INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.:	Serial No.:
	55955US002	09/966,946
	Applicant(s): Sarah J. Davis et al.	
	Filing Date: September 27, 2001	Group: Unknown

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	SubClass	Filing Date If Appropriate
	09/967,401 55954US002		Sara J. Davis et al.			9/27/2001
	09/967,562 56046US007		Sara J. Davis et al.			9/27/2001
	09/616,589 55675USA1A		Michael W. Carpenter et al.			7/14/2000

OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

		Preforms for Metal Matrix Composites, "Fibralloy™ Preforms for Metal Matrix Composites" Product Brochure, Thermal Ceramics Inc., 1/1998.
		"Squeeze Cast (SCPM) Light Weight Aluminum Front Knuckle Case Study", SAE Technical Paper Series, David T. Gerken & Rick Neal, 1999, Society of Automotive Engineers, Inc., pp. 1-6.
		"MMCs for Automotive Applications" Article, The American Ceramic Society Bulletin, M. Varuzan Kevorkijan, December 1998, pp. 53-59.
		"Metal-Matrix Composites in the Automotive Industry: Opportunities and Challenges" Article, JOM, John E. Allison & Gerald S. Cole, January 1993, pp. 19-24.
		"Non-Linear Response of Continuous Fiber Metal Matrix Composite Laminates" by Christopher P. R. Hoppel, Travis A. Bogetti, Bryan A. Cheeseman, and Aristedes Yiournas, ARL-RP-43 November 2001 (A reprint from Proceedings of the American Society for Composites, Blacksburg, VA, 9-12 September 2001)

EXAMINER	Date Considered
-----------------	------------------------

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Based on Form PTO-FB-A820
(Also form PTO-1449)

Patent and Trademark Office, U.S. Department of Commerce



INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.:	Serial No.:
	55955US002	09/966,946
	Applicant(s): Sarah J. Davis et al.	
	Filing Date: September 27, 2001	Group: Unknown

FOREIGN PATENT DOCUMENTS

		Document Number	Date of Publication	Country	Class	SubClass	Translation	
							Yes	No
		DE 29 50 660 A1	11/30/1979	Germany			X	
		HEI 1-273664	11/1/1989	Japan			X	
		HEI 4-172169	6/19/1992	Japan			X	
		HEI 2000-202613	7/25/2000	Japan			X	
		SHO 62-142733	6/26/1987	Japan			X	
		JP 61-88956	10/5/1984	Japan			X	
		JP 61-293649	6/20/1985	Japan			X	
		JP 63-282223	5/12/1987	Japan			X	
		WO 91/06421	5/16/1991	PCT				
		WO 97/00976	1/9/1997	PCT				
		GB 2 087 490 A	5/26/1982	United Kingdom				
		GB 2 182 970 A	5/28/1987	United Kingdom				
		GB 2 182 970 B	9/14/1988	United Kingdom				
		EP 0 359 548 B1	3/21/1990	EPO				
		EP 0 361 356 A1	4/4/1990	EPO				
		EP 0 489 453 B1	6/10/1992	EPO				

RECEIVED
APR 08 2002
TC 1700

OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

			"Properties of Wear Resistant Composites" Product Brochure, Thermal Ceramics Inc. for purposes of examining the instant application, Applicants admit the publication date was prior to (9/28/2000) provisional filing date from which the instant application claims priority from.
			Preforms for Metal Matrix Composites, "Wear Resistant Fibrilloy™ Reinforced Composites" Product Brochure, Thermal Ceramics, 1/1998.
			"Fibrilloy Preforms For Light Metal Alloy Reinforcement" Product Brochure, Thermal Ceramics Inc. for purposes of examining the instant application, Applicants admit the publication date was prior to (9/28/2000) provisional filing date from which the instant application claims priority from.
			"Squeeze Cast Al ₂ O ₃ /Al Ceramic-Metal Composites" <u>Ceramic Bulletin</u> , Vol. 70, 1991, pp. 195-197

EXAMINER	Date Considered
-----------------	------------------------

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.